

Serial No. 09/803,941

IN THE CLAIMS:

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1. (Currently Amended) A ceramic honeycomb structure comprising a plurality of through-holes surrounded by partition walls, wherein (1) a thermal expansion coefficient of an outer circumferential wall portion in the ceramic honeycomb structure is larger than a thermal expansion coefficient, in a direction of a diameter, of an inside partition wall portion in the ceramic honeycomb structure, and stress is applied to the inside partition wall portion from the outer circumferential wall portion, and ~~wherein~~ (2) a raw material for said outer circumferential wall is given in a thickness sufficient to apply a stress to the inside partition walls from the outer circumferential wall around a whole surface of the outer circumferential wall, and (3) the outer circumferential wall portion has been made of a crystalline cordierite.

2. (Original) A ceramic honeycomb structures as defined in claim 1, wherein a material for the outer circumferential wall portion of the ceramic honeycomb structure is the same as or different from a material for the ceramic honeycomb structure.

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